



Seminar - Reactor Systems

Fornebu, April 23 – 24, 2026

Rune Hofsløkken (Nerliens Meszansky AS)



Seminar program: Thursday, April 23

09:00 – 09:15	Welcome and introduction, Rune Hofsløkken (NMAS).	
09:15 – 09:45	Review of Büchi reactor solutions, part 1 <ul style="list-style-type: none">• Glass reactors from 5L to 250L	Erwin Telser (Büchi Glas Uster)
09:45 – 10:15	Review of Büchi reactor solutions, part 2 <ul style="list-style-type: none">• Pressure reactors from laboratory to production	Erwin Telser (Büchi Glas Uster)
10:15 – 10:30	Coffee/tea pause.	
10:30 – 10:45	Review of Büchi reactor solutions, part 3 <ul style="list-style-type: none">• Filter reactors and solid phase synthesis	Erwin Telser (Büchi Glas Uster)
10:45 – 11:30	Reaction workup and cleaning solutions <ul style="list-style-type: none">• Nutsch filters, mixing vessels, extraction, CIP and gas scrubbers	Erwin Telser (Büchi Glas Uster)
11:30 – 12:00	From Idea to Solution <ul style="list-style-type: none">• Important aspects to consider when planning batch synthesis for laboratory to pilot scale applications	Erwin Telser (Büchi Glas Uster)

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12:00-12:45	Lunch break	
12:45 – 13:30	The basics of temperature control and thermal transfer <ul style="list-style-type: none">• Water Baths, Thermostats, Chillers, Circulators and Dynamic control systems	Alina Gorgots (Huber)
13:30 – 14:00	Case studies showing temperature control applications <ul style="list-style-type: none">• Real life examples showing the performance of circulation thermostats and chillers for lab, pilot and production reactors.	Alina Gorgots (Huber)
14:00 – 14:15	Coffee/tea pause	
14:15 – 16:00	Site visit to Polypure production facilities with live demonstrations	NMAS and Polypure
	<ul style="list-style-type: none">• We will divide into different groups and visit Polypure's production facilities to see several Büchi process reactors (15L, 30L, 60L and 100L) with Huber chillers and circulation thermostats, and Vacuubrand vacuum pumps. Practical demonstrations showing how to operate the Büchi reactors will be given by the Polypure operators.• We will also visit Polypure's Process lab 3 where there will be given a demonstration how to control, operate and monitor a 1L Syrris Orb laboratory reactor with Huber circulation thermostat, Heidolph overhead stirrer, Precisa analytical balance, KNF liquid dosing pump, Vacuubrand vacuum pump using Systags PC-based "ePat" process control system.	

Seminar program: Friday, April 24

09:00 – 09:30	Thaletec glass-lined production reactors and equipment <ul style="list-style-type: none">• Introduction to Thaletec Germany with history back to 1686.• Innovative glass lining technology is ideal for the Chemical, Pharmaceutical, Environmental and Defence Industries.	Dimitri Klimow (Thaletec)
09:30 – 10:30	Review of Thaletec product reactor solutions <ul style="list-style-type: none">• Production reactors type AE, BE, CE and customized versions• Storage tanks, mixing vessels, receivers, cover plates, agitators, baffles, valves• Special equipment for thin layer evaporation, filter drying, double cone-drying, pipes, distillation/rectification columns, pressure filters, heat exchangers, etc.	Dimitri Klimow (Thaletec)
10:30 – 10:45	Coffee/tea and fruit.	
10:45 – 12:00	The benefits of reaction control and process automation <ul style="list-style-type: none">• Introduction to Systag Switzerland• Important aspects to consider when controlling and automating temperatures, stirring, dosing, vacuum, pressure, pH, sampling, quenching, inertization, distillation, and other parameters• Introduction to recipe-based control software for automated production	Sebastian Sewing (Systag)
12:00 - 12:45	Lunch break	

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12:45 – 13:45	Live demonstration of Systag controlled lab reactor system	Sebastian Sewing (Systag)
	<ul style="list-style-type: none">• We will show how to setup and run a standard laboratory reactor using “ePAT” with a 1L Syrris Orb glass reactor, Heidolph overhead stirrer, Huber circulation thermostat, Precisa analytical balance, KNF liquid pump, pH-sensor and Vacuubrand vacuum pump.• We will also show how to control and operate a Büchi “uniclave” pressure reactor using a dedicated control system for pressure reactors.	
13:45 – 14:15	Site visit to Polypure production facilities and demonstrations	NMAS and Polypure
	<ul style="list-style-type: none">• We will revisit Polypure’s production facilities and learn how to operate and maintain Büchi process reactors with Huber chillers and circulation thermostats, and Vacuubrand vacuum pumps.	
14:15 – 14:30	Closing remarks and evaluation, Rune Hofsløkken (NMAS).	